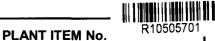


MECHANICAL DATA SHEET: VESSEL



24590-LAW-LFP-VSL-00001

Project:	RPP-WTP	P&ID:	24590-LAW-M6-LFP-P0001; 24590-LAW-M6-LFP-P0002/1\
Project No:	24590	Process Data Sheet:	-Deleted /1\ \#\ 3/7/05
Project Site.	Hanford	Vessel Drawing	24590-LAW-MV-LFP-P0004
Description:	Melter 1 Feed Prep Vesse	<i>1</i>	

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Charge Vessels (Tag Numbers)	Not Applicable	•	
Pulsejet Mixers / Agitators (Tag Numbers)	LFP-AGT-00001		
RFDs/Pumps (Tag Numbers)	LFP-PMP-00001A, LFP-PMP-00001B		
Spray Nozzles	LFP-NOZ-00001, LFP-NOZ-00002		

Design Data

Quality Level		CM (Note 4)	Fabrication Specs	24590-WTP-3P	S-MV00-TP001		
Seismic Category		SC-III Design Code		ASME VIII Div 1			
Service/Contents		LAW Melter Feed	Code Stamp	Yes		*	
Design Specific Gravity		1.90	NB Registration	Yes			
Maximum Operating Volume	gal	7,689	Weights (lbs)	<u>Empty</u>	Operating	Test	
Total Volume	gal	9,123	Estimated	37,000	157,100	113,300	
	•		Actual *	,			

Inside Diameter	inch	nch 132		Wind Design .	Not Required		
Length/Height (TL-TL)	inch 126		Snow Design Not Require		Required		
	•	Vessel Operating	Vessel <u>Design</u>	Coil/Jacket Design	Seismic Design		90-WTP-3PS-MV00-TP002 90-WTP-3PS-FB01-T0001
Internal Pressure	psig	0.07	15	None	Seismic Base Moment *	,ft*lb	
External Pressure	psig	4.09	FV	None	Postweld Heat Treat	Not	Required
Temperature	°F	98	150	None	Corrosion Allowance	Inch	0.04 Top Head 0.125 Shell & Btm Head
Min Design Metal Temp.	°F	40			Hydrostatic Test Pressure *	psig	

Note: Please note that source, special riuclear and byproduct materials, as defined in the Atomic Energy Act of 1954 (AEA), are regulated at the U.S. Department of Energy (DOE) facilities exclusively by DOE acting pursuant to its AEA authority. DOE asserts, that pursuant to the AEA, it has sole and exclusive responsibility and authority to regulate source, special nuclear, and byproduct materials at DOE-owned nuclear facilities. Information contained herein on redionuclides is provided for process description

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EXPIRES 12/10/06

This bound document contains a total of 2 sheets.

1	Issued for Permitting Use	12/	Raf	am	Villa-	3/7/05
0	Issued for Permitting Use	2 J. Jackson	S/Lee	C. Slater	H . Jsern	12/29/03
Rev.	Reason for Revision	Ву	Checked	Review	Approved	Date



MECHANICAL DATA SHEET: VESSEL

PLANT ITEM No.

24590-LAW-LFP-VSL-00001

Materials of Construction

Component	Material	Minimum Thickness / Size	Containment
Top Head	SA-240 316 (Note 2)	See Drawing	Auxiliary
Shell	SA-240 316 (Note 2)	See Drawing	Primary
Bottom Head	SA-240 316 (Note 2)	See Drawing	Primary
Support	SA-240 304 (Note 2)	See Drawing	NIA
Jacket/Coils/Half-Pipe Jacket	NIA	NIA /1	NIA
Internals	SA-240 316 (Note 2)	See Drawing	Thermowells Primary
Pipe (Seamless)	SA-312 TP316 Seamless (Note 2)	See Drawing	Note 3
Forgings/ Bar stock	SA-182 F316 (Note 2)	See Drawing	NIA
Gaskets (O Ring)	EPDM O-Ring	NIA	N/A
Bolting	SA-193 B8IN SA-194 8M	NIA	NIA

Miscellaneous Data

Orientation	Vertical	Support Type	Skirt
Insulation Function	Not Applicable	Insulation Material	Not Applicable
Insulation Thickness (inch)	Not Applicable	Internal Finish	Welds descaled as laid
,		External Finish	Welds descaled as laid

Remarks

* To be determined by the vendor.

Note 1: Deleted.

Note 2: Material shall have Carbon Content of 0.030% Max. Non-welded items are excluded from this requirement.

Note 3: Nozzle necks below normal operating level are Primary, others Auxiliary. See 24590-WTP-3PS-MV00-TP001 for NDE/ 1

Note 4: Additional NDE requirements should be as per 6.4 of 24590-WTP-3PS-MV00-TP001.

Note 5: Contents of this document are dangerous waste permit affecting.